A CATALOGUE OF
Optical, Mathematical, and Philoſophical
INSTRUMENTS,

MADE AND SOLD BY

WILL^{M}. AND SAM^{L}. JONES,

At their Shop, No. 135, next *Furnival's Inn, Holborn,*
LONDON.

BRITISH MUSEUM

☞ To prevent Miſtakes in Regard to a ſimilar Name, &c. they hereby inform the Public that they have no other Shop.

OPTICAL INSTRUMENTS.	£.	s.	d.
BEST double-jointed ſtandard gold ſpectacles with pebbles, and fiſh-ſkin gold mounted caſe	16	16	0
Ditto ſingle-jointed, with ditto caſe	10	10	0
Beſt double-jointed ſilver ditto, with pebbles	1	16	0
Ditto, ditto, with glaſſes	1	1	0
Beſt ſingle-jointed, with pebbles,	1	8	0
Ditto, with glaſſes	0	13	0
Beſt double-jointed ſteel ditto, with glaſſes	0	9	0
An improved ſort of ditto for ladies	0	10	6
Second beſt double-jointed ſteel ſpectacles, with a caſe	0	7	6
Common ditto	0	4	6
Beſt ſingle-jointed ſteel ſpectacles	0	4	6
Second beſt ditto, with beſt glaſſes	0	2	6
Common ditto	0	1	6
Tortoiſhell ſpectacles, ſilver jointed, with pointed, and other ſhaped ſides, peculiar for their lightneſs, and uninterruption of dreſſed hair, in a morocco leather caſe	0	10	6
Ditto with double-jointed frames	0	15	0
Spectacles for eyes that have been couched	0	7	6
Ditto with green glaſſes for very weak and inflamed eyes; according to the frames, from 6s. to	1	1	0
Ditto for the ſame purpoſe with new contrived portable ſhades to ſcreen the eyes from candle, or other light	0	15	0
Spectacles with Martin's viſual horns, prices as above			
Noſe ſpectacles, in ſilver	0	7	6
Ditto in tortoiſhell and ſilver	0	4	0
Ditto in horn and ſteel	0	1	0
Spectacle caſes in infinite variety, from 2d. to	10	10	0
Concave glaſſes for ſhort ſighted perſons, in horn caſes	0	1	6
Ditto in tortoiſhell, pearl, ſilver, &c. from 2s. 6d. to	2	2	0
Ditto, in new-contrived frames for gentlemen when ſhooting	0	16	0
Reading and burning glaſſes, in various mountings, from 1s. to	1	16	0
Magnifying glaſſes for Watch-makers, Jewellers, Engravers, &c. from 1s. to	0	10	6
Opera glaſſes in great variety of mountings, from 4s. 6d. to	2	12	6
Ditto, on an improved conſtruction of glaſſes, plain mounting	1	1	0
Refracting teleſcopes of various lengths, from 6s. to	1	16	0
Ditto to uſe at ſea by night, from 1l. 11. 6d. to	2	12	6
Achromatic teleſcopes of various lengths, from 18s. to	4	0	
The new improved ditto, with ſliding braſs tubes, by which an inſtantaneous view of the object is obtained, and ſhuts			

	£.	s.	d.
up very ſhort for the pocket, of various lengths, with or without ſtands, from 2l. 2s. to	8	18	6
The new improved 2½ feet Achromatic Refractor, on a braſs ſtand, mahogany tube, with two ſets of eye-glaſſes, one magnifying about forty times for terreſtial objects, and the other about 75 times for aſtronomical purpoſes, packed in a mahogany box	9	9	0
Ditto, ditto, the tube all braſs	10	10	0
The 3½ feet ditto, ditto, mahogany tube	16	16	0
Ditto, ditto, braſs tube	18	18	0
Ditto all in braſs, with rack work motions, &c.	24	3	0
Achromatic perſpective glaſſes for the pocket, in braſs, &c. tubes, with a change of eye-glaſſes from 12s. to	3	3	0
New improved ditto, anſwering the purpoſe of an Opera-glaſs, with a compaſs, and helioſcope for viewing the ſun, from 1l. 3s. to	2	2	0
New improved Achromatic pocket teleſcope, which by a ſmall apparatus within its tubes, is readily converted into a compound microſcope	3	13	6
An improved portable 7 inch achromatic teleſcope in braſs, with a ſtand that packs up into the tube of the teleſcope, adapted for aſtronomical uſes	3	13	6
Refracting teleſcopes four feet long, in braſs, and fitted up for celeſtial obſervations, from 40l. to	80	0	0
Ditto 3 feet long, mounted on a braſs ſtand without rack work	22	1	0
Ditto with rack work motions	27	6	0
Ditto 2 feet long, without rack work, and with four magnifying powers	12	12	0
Ditto with rack work motions	16	16	0
Ditto 18 inches on a plain ſtand	8	8	0
Ditto 12 inches ditto	5	5	0
Teleſcopes of the above two kinds fitted up with equatorial &c. motions; micrometers; adjuſting, compenſating, &c. apparatus, for the moſt accurate aſtronomical purpoſes			
Common microſcopes from 2s. 6d. to	1	1	0
Wilſon's ſingle pocket microſcopes from 18s. to	2	12	6
Compound microſcopes, improved, from 2l. 12s. 6d. to	5	5	0
New improved univerſal ditto, from 6l. 16s. 6d. to	10	10	0
Solar microſcopes in braſs, improved, from 4l. 14s. 6d. to	6	6	0
The new opake, and tranſparent ſolar microſcopes, with improved apparatus from 12l. 12s. to	16	16	0
Ditto of a larger ſize, with additional megalaſcopic apparatus from 14l. 14s. to	19	19	0
The Camera obſcura, or lucernal microſcope as improved by *W. JONES*, exhibiting images of opake, and tranſparent objects by night or day, in a manner ſingularly pleaſing, brilliant, and diſtinct, with upwards of 100 objects, proper apparatus, patent lamp, &c. &c.	16	16	0
Ditto conjoined with a ſolar compound, &c. apparatus, forming the *moſt perfect* collection of microſcopical apparatus	34	13	0
The new opake and tranſparent ſolar microſcope, and beſt compound ditto, packed together in one mahogany box	26	5	0
A microſcope, with lanthorn to uſe by night	5	5	0
A portable optical apparatus, conſiſting of a ſcioptic ball and			

	£.	s.	d.
ſocket, a ſolar microſcope, Wilſon's microſcope, a pocket compound microſcope, a pocket teleſcope, and ſolar teleſcope, in mahogany and braſs	3	13	6
Pocket microſcopes for opake objects from 16s. to	2	12	6
Botanic microſcopes for flowers, &c. from 5s. to	1	11	6
Cloth microſcopes from 2s. 6d. to	0	10	6
Magic lanthorns of the large ſize	1	1	0
Sliders for ditto in great variety of ſubjects, each	0	8	6
Small magic lanthorns, with twelve ſliders complete, at 7s. 6d. 10s. 6d. 12s. and	1	0	0
Ditto with 12 ſliders of beſt paintings	1	18	0
Optical diagonal machines for viewing prints, from 18s. to	1	16	0
Scioptic balls and ſockets from 10s. 6d. to	1	11	6
An artificial eye in braſs, to exemplify the nature of viſion	1	11	6
Cameras obſcuras for the pocket, from 9s. to	1	16	0
A new invented folding ditto, very portable,	2	2	0
Large ditto, ſhutting up like a book, or neat portable cheſt, from 4l. 14s. 6d. to	8	18	6
Concave and convex mirrors, in plain black frames, 4, 5, 6, and 7, inches diameter, each, 9s. 12s. 14s. and	0	18	0
8 inches diameter ditto	1	1	0
9 inches ditto	1	7	0
10 inches ditto	1	12	0
12 inches ditto	2	5	0
15 inches ditto	3	13	6
18 inches ditto	6	6	0
21 inches ditto	11	11	0
24 inches ditto	16	16	0
Concave mirrors ground cylindrically, poſſeſſing ſeveral curious properties in the deformation of objects, according to the ſize, from 1l. 1s. to	5	5	0
Glaſs priſms, from 7s. 6d. to	1	1	0

MATHEMATICAL INSTRUMENTS.

	£.	s.	d.
Theodolites, of the common conſtruction, and of the beſt workmanſhip, from 4l. 4s. to	31	10	0
A portable theodolite, with a teleſcope, level, and vertical arch	7	7	0
Ditto larger, with parallel plates, &c. divided to 2 minutes	12	12	0
Ditto, with rack work motions, diviſions to a minute	22	1	0
A new-improved theodolite, with 2 teleſcopes, and contrivances for every accurate adjuſtment	31	10	0
A new very portable theodolite, by rack work, meaſuring angles with equal accuracy, as thoſe of the common large ſort, is at the ſame time applicable for taking altitudes, and is truly adapted for the purpoſe of levelling	8	8	0
Circumferentors, much uſed in America, from 2l. 2s. to	4	4	0
An improved ditto, contrived to anſwer the purpoſes of a common theodolite, level, altitude inſtrument, &c.	4	14	6
Surveying croſſes or ſquares, on a ſtaff, from 12s. to	2	12	6
Levels of the lateſt improvements, from 2l. 2s. to	12	12	0
Station ſtaffs, with ſliding vanes, for levelling, from 1l. 1s. to	3	3	0
Plane tables, with index, ſights, &c. complete, from 3l. 13. 6d. to	5	5	0

Pantagraphs, by which any perſon unſkilled in drawing may

	£.	s.	d.
copy plans, ſurveys, profiles, drawings, &c. in any proportion to the original, from 1l. 16s. to	6	16	6
Perambulators, or meaſuring wheels, from 6l. 6s. to	10	10	0
Gunter's meaſuring chain, from 5s. to	0	10	6
Ditto ſcale, from 2s. to	0	4	0
Ditto, improved by Donn, with book of directions,	0	5	0
Gunter's ſectors, of various lengths, from 2s. to	1	11	6
Meaſuring tapes in leather boxes, from 5s. to	0	10	6
Pedeometers for aſcertaining diſtance, in walking or riding, of a watch ſize for the pocket, and alſo to apply to carriages, from 4l. 14s. 6d. to	12	12	0
Miner's compaſſes for working ſubterraneous grounds, from 10s. 6d. to	1	11	6
Caſes of drawing inſtruments, from 4s. 6d. to	5	5	0
Magazine, or complete collection of every kind of uſeful drawing inſtruments, from 5l. 5s. to	35	0	0
A new portable drawing board and ſeat, the board folds up for the pocket, and the legs of the ſeat form a walking ſtick	0	18	0
Proportional compaſſes, from 1l. 10s. to	3	3	0
Elliptical compaſſes of various degrees of perfection, and utility, from 16s. to	4	14	6
Spiral and elliptical compaſſes, from 6s. 6d. to	10	10	0
Triangular compaſſes, by which three points at once may be tranſferred, from 13s. to	1	5	0
Hair compaſſes, that take extents to an extraordinary degree of accuracy	0	7	6
Beam compaſſes for dividing large circles, projections, &c. from 1l. 1s. to	10	0	0
Bow compaſſes for deſcribing very ſmall circles, from 2s. 6d. to	0	12	0
Parallel rulers of different conſtructions, from 2s. to	2	12	6
Protractors for laying down angles, from 2s. to	1	1	0
Ditto, with a nonius and moveable limb	2	2	0
Ditto, ditto, with teeth and pinion	4	10	0
Sets of protracting and plotting ſcales; inſtruments for drawing lines inclined in any given angle to one another, though the angular point be ever ſo far diſtant. Inſtruments for dividing lines, or transferring diviſions on paper. An inſtrument for deſcribing circles, from 4 or 6 inches radius, to the utmoſt conceivable diſtance —Gunners Callipers, Gunners levels or perpendiculars, Beam Callipers, Shot Gauges—Shell ditto—Gunners quadrants, with a plummet or level, or adjuſting ſcrew, &c. and all other inſtruments for military purpoſes.			
Hadley's quadrants, mahogany, the diviſions on wood	1	11	6
Ditto mahogany with ivory arch, and nonius, double obſervation	2	2	0
Ditto ditto, a braſs index, double obſervation	2	12	6
Ditto ebony and braſs, beſt glaſſes, engine divided, &c.	3	0	0
Ebony and braſs-mounted beſt ſextants, from 4l. 4s. to	8	18	6
Improved ditto, all braſs, framed on a principle the leaſt liable to be warped or ſtrained, with adjuſting ſcrews, teleſcopes, and other auxiliary apparatus, the moſt proper for taking diſtances accurately, in order to determine the longitude at ſea	12	12	0
Davis's quadrant, from 10s. 6d. to	1	11	6
Gunter's quadrant, from 4s. to	1	1	0

	£.	s.	d.
Azimuth compaſſes of different conſtructions, from 5l. 5s. to	12	12	0
Pocket compaſſes, from 2s. 6d. to	5	5	0
Horizontal ſun-dials, in braſs, made for any latitude, of 4, 5, or 6 inches diameter, divided into 5 minutes of time, each at 6s. 9s. and	0	12	0
Ditto 7 inches	0	16	0
Ditto 8 inches, into 2 minutes	1	4	0
Ditto 10 inches, ditto	1	16	0
Ditto 12 inches, ditto	2	10	0
Ditto 15 inches, into every minute, 32 points of the compaſs, &c.	4	14	6
Ditto 18 inches, ditto, ditto, equation of time, &c.	8	8	0
Ditto 2 feet diameter, ditto, ditto	15	15	0
A new univerſal ditto, and equatorial, making a very portable angular inſtrument, from 8l. 8s. to	31	10	0
Univerſal ring dials, from 7s. 6d. to	10	10	0

PHILOSOPHICAL, &c. INSTRUMENTS.

	£.	s.	d.
Large orreries, from 40l. to	1000	0	0
Planetariums, ſhewing the phænomena of the Ptolemaic and Copernican ſyſtems, from 7l. 7s. to	50	0	0
Manual orreries of the common conſtruct. from 2l. 12s. 6d. to	6	6	0
Jones's (Wm.) new portable orrery, the tellurian part	1	1	0
Ditto, the planetarium part	1	1	0
Tellurian and planetarium together, making the *new portable orrery*, packed up in a neat mahogany box, according to the ſize, from 2l. 12s. 6d. to	5	5	0
An orrery ſhewing the motions of Mercury, Venus, the Earth and Moon, by wheel work, the Earth is a 1½ inch globe, packed in a box	5	13	6
Other planetariums, and orreries, in great variety, the motions chiefly by wheel-work, exemplifying the motions and phænomena of all the planets, the Georgium Sidus included, and by particular apparatus, clearly elucidating the cauſes of the direct, ſtationary, and retrograde motions of the planets.			
Cometariums, for exemplifying the motion of comets, from 1l. 11s. 6d. to	5	5	0
Senex's globes improved, 28 inches diameter, mahogany frames, with carved work, and ſilvered meridians, &c.	50	0	0
17-inch ditto, mounted in the common manner	6	6	0
12-inch ditto, improved by Ferguſon, with all the new diſcoveries of Capt. Cooke, &c. with the new hour circles, which ſuperſede all the intended advantages of cumberſome wires, and other appendages in other globes, mounted in neat mahogany claw-feet frames	5	5	0
Ditto in common coloured-wood frames	3	3	0
Additional price of a compaſs, and fitting to both globes	0	5	0
A pair of red leather covers for globes	0	9	0
Globes 9 inches diameter, with the new diſcoveries	2	2	0
Ditto 3 inches ditto, in claw feet, mahogany frames,	1	10	0
Ditto 3 inches ſingle, one in a caſe for the pocket	0	9	0
Geographical planiſpheres, to ſolve problems, mounted as a hand fire ſcreen	0	7	6
A ſingle-barrel air pump	2	2	0

	£.	s.	d.
Improved ditto, exhauſting more accurately	5	15	6
A ſmall double-barrel air pump	4	14	6
A middle ſize ditto	6	6	0
A large ſize table ditto	10	10	0
The principal apparatus for the air-pump, chiefly as follow			
Guinea and feather apparatus, demonſtrating the reſiſtance of the air, with one, two, or three falls, from 15s. to	1	11	6
A ſet of mills, for the ſame demonſtration	1	8	0
The braſs hemiſpheres, ſhewing the air's external preſſure, from 12s. to	1	10	0
A bell, proving that there is no ſound without air	0	5	0
Improved conſtructions of this bell, from 1l. 1s. to	3	10	0
Lead weights, with bladder, &c. proving the air's elaſticity	0	15	0
The double transferer, that transfers a vacuum from one receiver to another, by turning ſtop-cocks only	3	0	0
A model of a water pump, exemplifying the nature of pumps, and proving the abſurdity of what is called *ſuction*	1	4	0
A ſingle transferer, plate, and pipe, for a fountain	0	15	0
A copper air pipe, for experiments on infected air	0	17	0
A flat plate, collar of leathers, with ſliding wire for placing on receivers	0	7	6
An apparatus for firing gun-powder in vacuo	0	14	0
A copper bottle, beam and ſtand, for accurately weighing of air	2	12	6
A glaſs veſſel, for making a fountain in vacuo	0	5	0
Ditto on a larger, and different conſtruction	0	16	0
A glaſs, with a bladder, ſhewing the action of the lungs	0	5	0
A balance beam and ſtand	0	7	0
A filtering arch } ſhewing the poroſity of vegetables	0	5	6
A plate and piece of wood }	0	4	6
An apparatus for ſtriking flint and ſteel in vacuo	0	18	0
The Torricellian experiment	1	1	0
Other apparatus, illuſtrating the lateral preſſure of the air. Breaking ſquares and cage. Bubble and ſtand. Receivers, of all the various kinds and prices, with ſeveral other apparatus, too numerous to be included here.			
Exhauſting and condenſing ſyringes, from 10s. 6d. to	1	11	6
Exhauſting ſyringes, with ſets of cupping glaſſes	1	11	6
Air fountains of copper with various jets, from 3l. 13s. 6d. to	7	7	0
Electrical machines, with conductors and jars, from 2l. 12. 6d. to	10	10	0
New, and much improved ditto, from 3l. 13. 6d. to	42	0	0
Electrical machines, and complete apparatus, for medical purpoſes, packed in boxes, the cylinder from 7 to 10 inches diameter, from 5l. 5s. to	12	12	0
An electrical machine, with apparatus for philoſophical experiments, packed in a box, the cylinder about 8 inches diameter	8	8	0
Apparatus for electrical machines as follow			
Electrical batteries, of conbined jars, from 2l. 12s. 6d. to	10	10	0
A univerſal diſcharger with a preſs	1	6	0
A quadrant electrometer, with divided arch	0	7	0
Jointed diſchargers, with glaſs handles	0	10	0
Plain ditto ditto	0	5	0
A uſeful and illuſtrative apparatus, compounded of the lumi-			

	£.	s.	d.
nous conductor, exhauſted flaſk, two jars, exhauſted ſyringe, inſulated ſtand, and wires with balls, &c. complete	2	15	0
Luminous conductors, from 12s. to	1	5	0
Exhauſted flaſks, called Aurora Borealis	0	6	6
A thunder houſe, demonſtrating the uſe of conductors	0	6	0
A powder houſe, for the ſame purpoſe	0	14	0
An obeliſk or pyramid to ditto	0	12	0
A ſet of plain bells, three to a ſet	0	7	6
A new ſet of muſical ditto, containing the gamut	1	8	0
A magic picture for giving ſhocks	0	7	6
An electrical cannon, to be diſcharged by inflammable air	0	16	0
Braſs piſtols for ditto	0	7	6
Spiral tubes, to illuminate by the ſpark, from 4s. 6d. to	0	10	6
Luminous names, or words, from 10s. 6d. to	1	11	6
Spotted jars, from 6s. to	0	10	6
A double jar, for explaining the Franklinian theory	0	15	0
Copper plates and ſtands for dancing images	0	9	0
A ſmall head with hair	0	7	6
An artificial ſpider	0	1	6
An electrical ſwan	0	2	0
An electrical ſtar	0	1	6
Balls of wood, bone, &c. each from 6d. to	0	2	6
A curious collection of working models, to be ſet in motion by the electrical fluid, conſiſting of a corn mill and a three-barrelled water pump, worked by one crank only: an orrery, ſhewing the diurnal motion of the earth, age and phaſes of the moon, &c. and aſtronomical clock, ſhewing the aſpects of the ſun and moon, age, phaſes, &c. all delicately made of card paper, cork, and wire only, packed in a deal caſe	2	12	6
Kinnerſly's electrical air thermometer	1	0	0
Cavallo's atmoſpherical electrometer	0	12	0
Ditto, as improved by Sauſſure	1	1	0
Bennet's gold leaf electrometer	0	18	0
Nicholſon's new revolving doubler	2	12	6
An electrophorus, from 10s. 6d. to	3	3	0
Conductors, for the preſervation of ſhips, houſes, &c. from lightning, from 3l. 3s. to	5	5	0
The medical apparatus conſiſts of			
Jars with electrometers, from 12s. to	1	1	0
A new medical ditto, for communicating ſhocks, in the moſt convenient and qualified manner	0	7	6
Ditto, with electrometer and diſcharging rod	1	1	0
A pair of directors, glaſs handles, wood points, &c.	0	6	0
An electrometer to apply to the conductor	0	6	6
Electrical inſulated ſtools, and chairs, from 8s. to	5	5	0
A variety of other apparatus, too numerous to be here inſerted, which as well as the machines, are mounted from the moſt approved, eligible methods, ſo as to render them in action both extraordinary, powerful and permanent.			
Barometers plain mounted, from 1l. 11s. 6d. to	2	12	6
Thermometers for all the various purpoſes, from 9s. to	3	3	0
An hygrometer, ſhewing the moiſture and dryneſs of the air	0	10	6

	£.	s.	d.
Barometers, thermometers, and hygrometers, all in one neat mahogany frame, from 3l. 3s. to —— ——	6	6	0
Marine barometers, diagonal, wheel, and ſtatical ditto, and barometers for aſcertaining the height of mountains			
New hygrometers, conſtructed by De Luc, &c. at the loweſt prices			
Eudiometers for aſcertaining the ſalubrity of the air			
Eudiometer, by Abbé Fontana, the moſt approved —	2	4	0
Hydrometers for diſcovering the ſtrength and proportion of compound, in ſpirituous liquors, from 1l. 7s. to ——	3	3	0
Hydroſtatic balances, from 1l. 1s. to ——	9	9	0
An apparatus for hydroſtatical experiments ——	21	0	0
Artificial magnets in bars, and ſets of bars, from 2s. 6d. to	6	6	0
Ditto, in the ſhape of a horſe-ſhoe, the ſtrongeſt form, from 1s. 6d. to —— —— ——	1	1	0
Ditto, combined to any number, from 12s. to ——	21	0	0
Dipping needles, variation compaſſes, and magnetical apparatus in boxes, in great variety			
Pyrometers, ſhewing the expanſion of metals, from 3l. 3s. to	10	10	0
The mechanical powers, for illuſtrating and demonſtrating the laws of motion, gravity, &c. a ſet neatly made in braſs, conſiſting of the balance, the pullies, the different kinds of levers, the inclined plane, the wheel and axle, the ſcrew, a compound engine, a compound lever, a double one to move up an inclined plane, friction wheels, weights, wedges, &c. complete —— ——	25	4	0
The ſame occaſionally made on a more enlarged plan, for a large auditory —— ——			
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